



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/721,602

11/25/2003

Pawan Goyal

ARC920030077US1

5994

55508

7590

05/12/2008

JOSEPH P. CURTIN, L.L.C.

1469 N.W. MORGAN LANE

PORTLAND, OR 97229-5291

EXAMINER

DAYE, CHELCIE L

ART UNIT

PAPER NUMBER

2161

MAIL DATE

DELIVERY MODE

05/12/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/721,602	GOYAL, PAWAN	
	Examiner	Art Unit	
	CHELCIE DAYE	2161	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 February 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20,22-24 and 26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20,22-24 and 26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is issued in response to applicant's Appeal Brief filed February 28, 2008.
2. Claims 1-20,22-24,and 26 are presented. No claims added and claims 21 and 25 remain cancelled.
3. Claims 1-20,22-24,and 26 are pending.
4. In view of the Appeal Brief filed on 2/28/08, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below. If an appellant wishes to reinstate an appeal after prosecution is reopened, appellant must file a new notice of appeal in compliance with 37 CFR 41.31 and a complete new appeal brief in compliance with 37 CFR 41.37. Any previously paid appeal fees set forth in 37 CFR 41.20 for filing a notice of appeal, filing an appeal brief, and requesting an oral hearing (if applicable) will be applied to the new appeal on the same application as long as a final Board decision has not been made on the prior appeal. If, however, the appeal fees have increased since they were previously paid, then appellant must pay the difference between the current fee(s) and the amount previously paid. Appellant must file a complete new appeal brief in compliance with the format and content requirements of 37 CFR 41.37(c) within two months from the date of filing the new notice of appeal. See MPEP § 1205.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1,4-7,10,13-15,18-20,24, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanai (US Patent No. 6,502,205) filed November 10, 2000, in view of Kawamura (US Patent Application No. 20040193658) filed August 29, 2003.

Regarding Claims 1, 7, 10, 15, and 20, Yanai discloses a method for asynchronously remotely copying database content changes from a primary site to a remote site, the method comprising:

associating a sequential identification with each respective log record write and each corresponding data record write received at the primary site, each data record write containing modifications to a page of the database and each log record write containing information describing modifications to the page of the database for a corresponding data record write (column 32, lines 34-58 and column 33, lines 7-10, Yanai). However, Yanai is silent with respect to asynchronously remotely copying each respective log record write from the primary site to the remote site; receiving an acknowledgement at the primary site, the acknowledgement corresponding to a log record write that has been

completed at the remote site; and asynchronously remotely copying each data record write having a sequential identification that is prior to or equal to the sequential identification of the log record write corresponding to the received acknowledgement. On the other hand, Kawamura discloses asynchronously remotely copying each respective log record write from the primary site to the remote site ([0016] and [0054], lines 13-18, Kawamura); receiving an acknowledgement at the primary site, the acknowledgement corresponding to a log record write that has been completed at the remote site ([0073], Kawamura); and asynchronously remotely copying each data record write having a sequential identification that is only prior to or equal to the sequential identification of the log record write corresponding to the received acknowledgement ([0075], lines 1-3 and [0076-0077], Kawamura). Yanai and Kawamura are analogous art because they are from the same field of endeavor of asynchronous remote copying. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Kawamura's teachings into the Yanai system. A skilled artisan would have been motivated to combine in order to provide a system in which modification contents of information completed within a primary site are lost in a remote site is lower in response of a failure or predetermined condition. Thus, allowing for a more efficient and non-disruptive asynchronous copy system.

Regarding Claims 4, 13, 18, and 24, the combination of Yanai in view of Kawamura, disclose the method wherein a log record write is asynchronously remotely copied from the primary site to the remote site before a data record write is asynchronously remotely copied from the primary site to the remote site (column 32, lines 34-38, Yanai).

Regarding Claims 5, 14, 19, and 26, the combination of Yanai in view of Kawamura, disclose the method wherein each log record write is a log block ([0050], lines 1-6, Kawamura) and each data record write is a data block write ([0048], lines 5-7, Kawamura).

Regarding Claim 6, the combination of Yanai in view of Kawamura, disclose the method further comprising:

asynchronously receiving a log record write at the remote site ([0016] and [0054], lines 13-18, Kawamura);

storing the received log record write at the remote site ([0062], Kawamura);

sending an acknowledgement from the remote site to the primary site when the received log record write is complete ([0073], Kawamura);

asynchronously receiving a data record write at the remote site from the primary site ([0075], lines 1-3 and [0076-0077], Kawamura); and

storing the received data record write ([0062], Kawamura).

7. Claims 2-3,8-9,11-12,16-17, and 22-23, are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanai (US Patent No. 6,502,205) filed November 10, 2000, in view of Kawamura (US Patent Application No. 20040193658) filed August 29, 2003, and further in view of Shomler (US Patent No. 5,623,599) filed July 29, 1994.

Regarding Claims 2, 8, 11, 16, and 22, the combination of Yanai in view of Kawamura disclose all of the claimed subject matter as stated above. However, while the combination of Yanai in view of Kawamura, teach a sequential identification, they are not as detailed with the being a monotonically increasing identification number. On the other hand, Shomler discloses a monotonically increasing identification number (column 11, lines 38-46, Shomler). It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Shomler's teachings into the Yanai and Kawamura system. A skilled artisan would have been motivated to combine in order to allow for the identification to be more precise and consistent with the information being produced by the system.

Regarding Claims 3, 9, 12, 17, and 23, the combination of Yanai in view of Kawamura, and further in view of Shomler, disclose the method wherein the sequential identification is a monotonically increasing time-stamp identification (column 7, lines 43-60, Shomler).

Response to Arguments

Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Points of Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHELCIE DAYE whose telephone number is (571)272-3891. The examiner can normally be reached on M-F, 7:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Apu Mofiz can be reached on 571-272-4146080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chelcie Daye
Patent Examiner
Technology Center 2100
May 8, 2008

Application/Control Number: 10/721,602
Art Unit: 2161

Page 8

/Apu M Mofiz/
Supervisory Patent Examiner, Art Unit 2161